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November 10, 2004

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APPLICATION NUMBER: 10/691,893

FILING DATE: *October 23, 2003*

RELATED PCT APPLICATION NUMBER: PCT/US04/34289

Certified by



Jon W Dudas

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PTO/SB/05 (03-01)

22278 U.S. PTO
10/691893



102303

UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No. **B100321**
First Inventor **ALVIN BLUM**
Title **WORLD GLOBE WITH DETAIL
DISPLAY**
Express Mail Label No. **ERG14372312U5**

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)
2. ☒ Applicant claims small entity status.
See 37 CFR 1.27.
3. ☒ Specification [Total Pages **6**]
(preferred arrangement set forth below)
 - Descriptive title of the invention
 - Cross Reference to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to sequence listing, a table, or a computer program listing appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
4. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets **4**]
5. Oath or Declaration [Total Pages **2**]
 - a. ☒ Newly executed (original or copy)
 - b. ☐ Copy from a prior application (37 CFR 1.63 (d))
(for continuation/divisional with Box 18 completed)
 - i. ☐ **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6. ☐ Application Data Sheet. See 37 CFR 1.76

ADDRESS TO: Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
 - a. ☐ Computer Readable Form (CRF)
 - b. Specification Sequence Listing on:
 - i. ☐ CD-ROM or CD-R (2 copies); or
 - ii. ☐ paper
 - c. ☐ Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

9. ☐ Assignment Papers (cover sheet & document(s))
10. ☐ 37 CFR 3.73(b) Statement [Power of Attorney] (when there is an assignee)
11. ☐ English Translation Document (if applicable)
12. ☒ Information Disclosure Statement (IDS)/PTO-1449 [Copies of IDS Citations]
13. ☐ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503) (Should be specifically itemized)
15. ☐ Certified Copy of Priority Document(s) (if foreign priority is claimed)
16. ☒ Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
17. ☒ Other: **PETITION & DECLARATION**

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP)

of prior application No.: _____

Prior application information:

Examiner _____

Group Art Unit: _____

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. CORRESPONDENCE ADDRESS

☒ Customer Number or Bar Code Label



or ☐ Correspondence address below

Name	27321			
Address	PATENT TRADEMARK OFFICE			
City	State	Zip Code		
Country	Telephone	954 4625006	Fax	

Name (Print/Type)	ALVIN S. BLUM	Registration No. (Attorney/Agent)	30448
Signature	<i>Alvin S. Blum</i>	Date	10/23/03

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FEE TRANSMITTAL

for FY 2003

Effective 01/01/2003. Patent fees are subject to annual revision.

☒ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$)**385**

Complete if Known

Application Number	
Filing Date	
First Named Inventor	ALVIN BLUM
Examiner Name	
Art Unit	
Attorney Docket No.	B100321

METHOD OF PAYMENT (check all that apply)

☒ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None

☐ Deposit Account:

Deposit Account Number	
Deposit Account Name	

The Director is authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☐ Credit any overpayments
☐ Charge any additional fee(s) during the pendency of this application
☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1001	750	2001	375	Utility filing fee	385
1002	330	2002	165	Design filing fee	
1003	520	2003	260	Plant filing fee	
1004	750	2004	375	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	
SUBTOTAL (1)					(\$) 385

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	Extra Claims	Fee from below	Fee Paid
Independent	-20** =	X	
Multiple Dependent	-3** =	X	

Large Entity		Small Entity		Fee Description
Fee Code	Fee (\$)	Fee Code	Fee (\$)	
1202	18	2202	9	Claims in excess of 20
1201	84	2201	42	Independent claims in excess of 3
1203	280	2203	140	Multiple dependent claim, if not paid
1204	84	2204	42	** Reissue independent claims over original patent
1205	18	2205	9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$)

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for ex parte reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	410	2252	205	Extension for reply within second month	
1253	930	2253	465	Extension for reply within third month	
1254	1,450	2254	725	Extension for reply within fourth month	
1255	1,970	2255	985	Extension for reply within fifth month	
1401	320	2401	160	Notice of Appeal	
1402	320	2402	160	Filing a brief in support of an appeal	
1403	280	2403	140	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,300	2453	650	Petition to revive - unintentional	
1501	1,300	2501	650	Utility issue fee (or reissue)	
1502	470	2502	235	Design issue fee	
1503	630	2503	315	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	750	2809	375	Filing a submission after final rejection (37 CFR 1.129(a))	
1810	750	2810	375	For each additional invention to be examined (37 CFR 1.129(b)),	
1801	750	2801	375	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	

Other fee (specify)

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$)

SUBMITTED BY

Name (Print/Type)	ALVIN S. BLUM	Registration No. (Attorney/Agent)	30,448	Telephone	9544625006
Signature	Alvin S. Blum	Date	10/23/03		

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**NONPUBLICATION REQUEST
UNDER
35 U.S.C. 122(b)(2)(B)(i)**

First Named Inventor

ALVIN BLUM

Title

WORLD GLOBE WITH DETAIL
DISPLAY

Attorney Docket Number

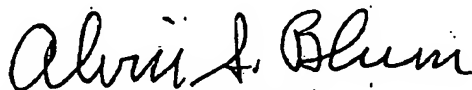
B100321

I hereby certify that the invention disclosed in the attached application **has not and will not be** the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing.

I hereby request that the attached application not be published under 35 U.S.C. 122(b).

10/23/2003

Date



Signature

954 462 5006

Telephone number

ALVIN S. BLUM

Typed or printed name

This request must be signed in compliance with 37 CFR 1.33(b) and submitted with the application upon filing.

Applicant may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant must notify the United States Patent and Trademark Office of such filing within forty-five (45) days after the date of the filing of such foreign or international application. **Failure to do so will result in abandonment of this application (35 U.S.C. 122(b)(2)(B)(iii)).**

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WORLD GLOBE WITH DETAIL DISPLAY

This invention relates to geographic displays, and more particularly to a world globe with an accessory detailed display of a selected region of the globe.

BACKGROUND OF THE INVENTION

Spherical globes that have imprinted on their surface the map of the world are well known. They are generally provided with an axle through their north and south poles. They may be mounted on a base by the axle, so that they may be rotated for viewing a selected area. U S Patent #6,625,086 issued 9/23/2003 to Kim discloses a globe with a rotation sensor on the axle. A pointer indicates a longitude position at a particular time zone on the globe. The sensor feeds the rotation information into an electronic processor and a display indicates a major city in that time zone and also displays the current time in that time zone.

Navigational aids for providing maps in vehicles and on computers have detailed maps stored on a memory such as a computer disc. The information is retrieved by inputting some location data. This enables selection of particular map information from the memory to be displayed on a computer monitor or a small monitor, such as a battery operated liquid crystal display in a vehicle.

Globes can be imprinted with a great deal of geographic information. However, unless the world globe is very large, the details are not easily read. Because a globe is spherical, it is awkward and expensive to have a large one. It is much less awkward and costly to have detailed planar maps. They may also be more easily updated. Flat and folded maps are very useful, but they lack the perspective given by the globe.

SUMMARY OF THE INVENTION

It is accordingly an object of the invention to provide a world globe, with geographic features thereon, that rotates on an axle with the axle mounted on a base. The globe is not large enough to legibly carry all of the geographic and map information that the invention provides. Additional detailed information of a selected area of the globe is provided on a display attached to the globe either on the base or at another location. Detailed information, much more than can be imprinted even on a large globe, is stored on a memory such as, but not limited to, a compact disc. Input to the memory to select a detailed map of a particular area of the globe to be displayed on the display is provided by a longitudinal signal and a latitudinal signal. An arcuate

meridian element running from the south pole to the north pole slidingly supports an indicator or reticle that may be moved north or south, and the globe rotated until the indicator or reticle is directly at the selected area. A rotary position sensor on the axle provides an east/west longitudinal signal, and a second sensor detecting the north-south location of the indicator or reticle on the meridian element provides the latitudinal signal. The two signals enable the system to select the appropriate map from the memory and to enable it to be displayed on the display. Another feature may enable the display of a more magnified map if desired.

These and other objects, features, and advantages of the invention will become more apparent when the detailed description is studied in conjunction with the drawings in which like elements are designated by like reference characters in the various drawing figures.

BRIEF DESCRIPTION OF THE DRAWINGS.

Fig. 1 is a front elevation view of the invention.

Fig. 2 is schematic representation of the invention.

Fig. 3 is a front elevation view of another embodiment of the invention.

Fig. 4 is front elevation view of the embodiment of Fig.3 with the display panel removed..

DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS

Referring now to the drawing Figs. 1-2, a globe 18 of the invention includes a sphere 4 imprinted with geographic indicia 17 on its surface. The sphere is supported on an axle 2 that is attached to support base 1. The sphere rotates about an axis 3 through the north pole 6 and the south pole 7. A meridian member 5 extends between the two poles. An indicator 8 such as an arrow pointer is slidably mounted on the meridian member for north/south motion of the tip of the indicator on the sphere. By rotation of the sphere in the east/west direction and motion of the indicator in the north/south direction, a particular area of the earth is located. A signal 13 from a first sensor 10 sensing rotation of the sphere and therefor longitudinal information, and a signal 14 from the second sensor 11 sensing sliding position of the indicator and therefor latitudinal information of the selected area are fed to circuit 19. Circuit 19 selects a particular portion of the memory 12 corresponding to the selected area. That detailed map information 16 is displayed on the display 15. The memory 12 may be any of the memory media well known in the art. It may be easily replaced with updated information, or with another language. Control buttons 20 and 21 select low and high magnification map displays. Button 22 moves the display to an area east,

and button 23 moves the display to an area west. Button 25 moves to an area north, and button 26 moves to an area south. These functions are well known in the vehicle navigation and computer map display art. Button 24 displays the current time at the selected area. An internal clock 29 is set by positioning the indicator 8 at a location where the time is known, then entering the correct time using the hour button 27 and minute button 28. When moved to a different time zone, the system displays the time corrected to that time zone. Electric power is supplied through power cord 30.

Referring now to Figs. 3 and 4, another embodiment 18' of the invention is shown in which the display panel 15' is mounted on the base 1' to display a detailed map 16' and the time 31 at the location indicated by the cross hairs of the reticle 8'. The sphere 4' imprinted with geographic information 17' is mounted on an axle 2' at the south pole with a pivot 32 at the north pole. The sphere and axle rotate together. The axle is rotatably supported by the two bearings 33 within the base. A rotary position first sensor 10' sends a signal through wire 13' to the computer circuit 19' indicating the longitudinal position of the reticle. A meridian member 5' encircles the sphere and supports the pivot 32. The reticle is mounted on a circular element 34 that is concentric with meridian member 5' and that slides within a track on member 5'. A second sensor 11' engages the element 34 and rotates when reticle and element 34 move, sending a signal representative of the latitude of the reticle through wire 14' to the circuit 19'. The circuit 19' selects from the memory 12' a particular detailed map 16' of the selected area for display on the display 15'. A clock circuit 29' provides time for time display 31. Electric power is provided by battery 35.

While I have shown and described the preferred embodiments of my invention, it will be understood that the invention may be embodied otherwise than as herein specifically illustrated or described, and that certain changes in form and arrangement of parts and the specific manner of practicing the invention may be made within the underlying idea or principles of the invention.

WHAT IS CLAIMED IS:

1. A globe assembly for displaying features of the world comprising:
 - a) a base;
 - b) an axle on the base;
 - c) a sphere representative of the earth supported on the axle for rotation about an axis through the north and south poles;
 - d) a meridian member extending between the poles;
 - e) an indicator slidably mounted on the meridian member for movement in a north/south direction on the sphere;
 - f) a first sensor mounted so as to provide a longitudinal signal representative of the rotary position of the sphere relative to the base;
 - g) a second sensor mounted so as to provide a latitudinal signal representative of the position of the indicator on the meridian;
 - h) a memory operatively connected to the signals from the first and second sensors, the memory storing more detailed map information than is imprinted on the sphere; and
 - i) a display for displaying detailed map information selected from the memory representing the area indicated by the indicator.
2. The globe assembly according to claim 1 further comprising an internal clock and means for displaying time at the selected area.
3. A method of simultaneously displaying a spherical geographic representation of the world along with a more detailed display of an area selected from the spherical geographic representation, the method comprising:
 - a) providing:
 - i) a base;
 - ii) an axle on the base;
 - iii) a sphere representative of the earth supported on the axle for rotation about an axis through the north and south poles;
 - iv) a meridian member extending between the poles;
 - v) an indicator slidably mounted on the meridian member for movement in a north/south direction on the sphere;

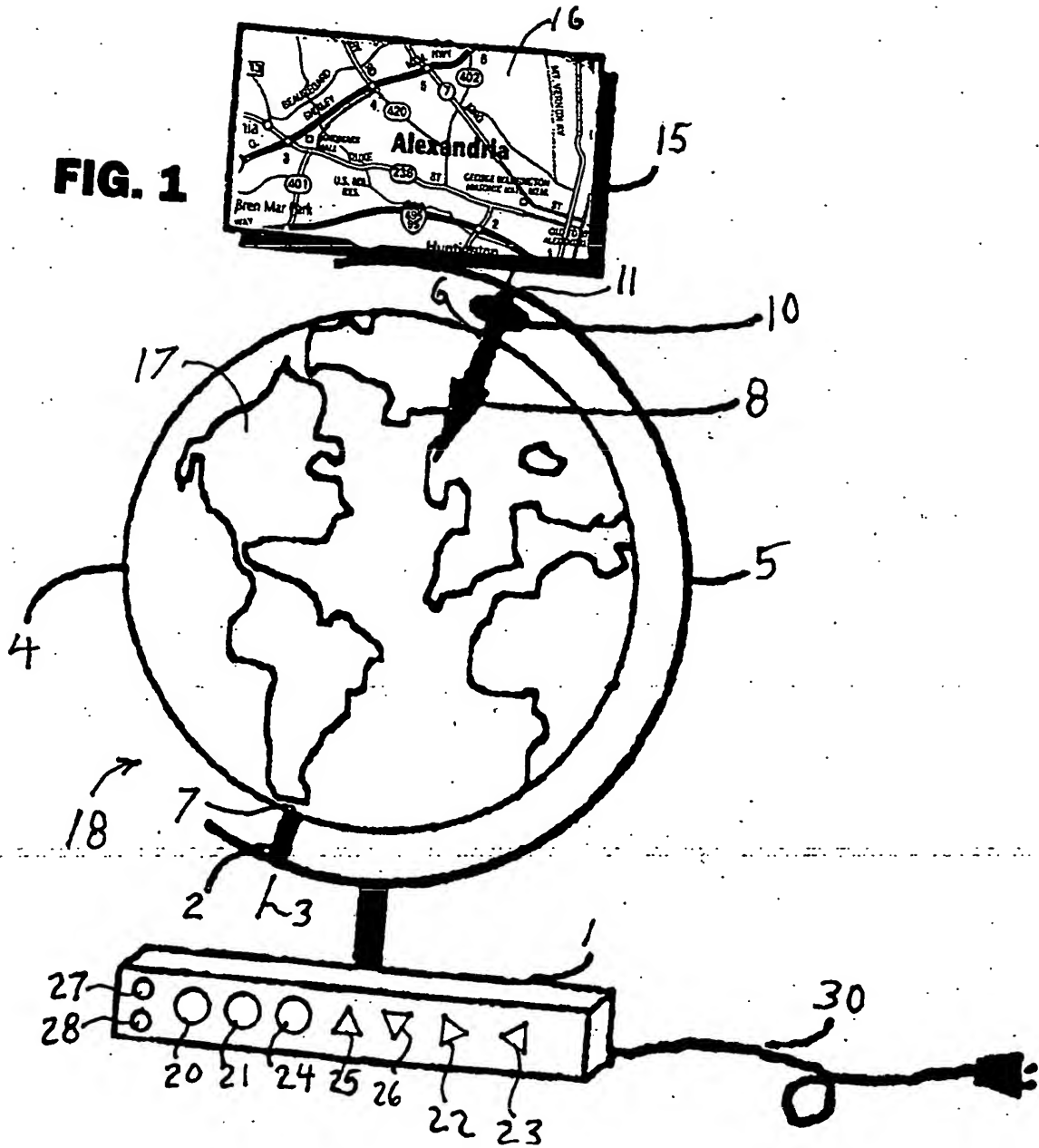
- vi) a first sensor mounted so as to provide a longitudinal signal representative of the rotary position of the sphere relative to the base;
- vii) a second sensor mounted so as to provide a latitudinal signal representative of the position of the indicator on the meridian;
- viii) a memory operatively connected to the signals from the first and second sensors, the memory storing more detailed map information than is imprinted on the sphere; and
- viii) a display for displaying detailed map information selected from the memory representing the area indicated by the indicator;
- b) moving the indicator and rotating the sphere to select a particular area of interest; and
- c) displaying that area in greater detail on the display.

ABSTRACT OF THE DISCLOSURE

A spherical world globe with geographic features imprinted on its surface rotates on an axis through the poles. The sphere is not large enough to carry legible details of all areas. Greater details are stored in a memory such as a compact disc. An indicator on the sphere slides north and south. A sensor senses the north south position of the indicator and sends a signal to a selection circuit connected to the memory. Another sensor connected to the rotation of the sphere sends an east/west signal to the memory. Using the two signals, the circuit finds the area corresponding to the area selected on the sphere and displays it on a display in greater detail than is visible on the sphere.

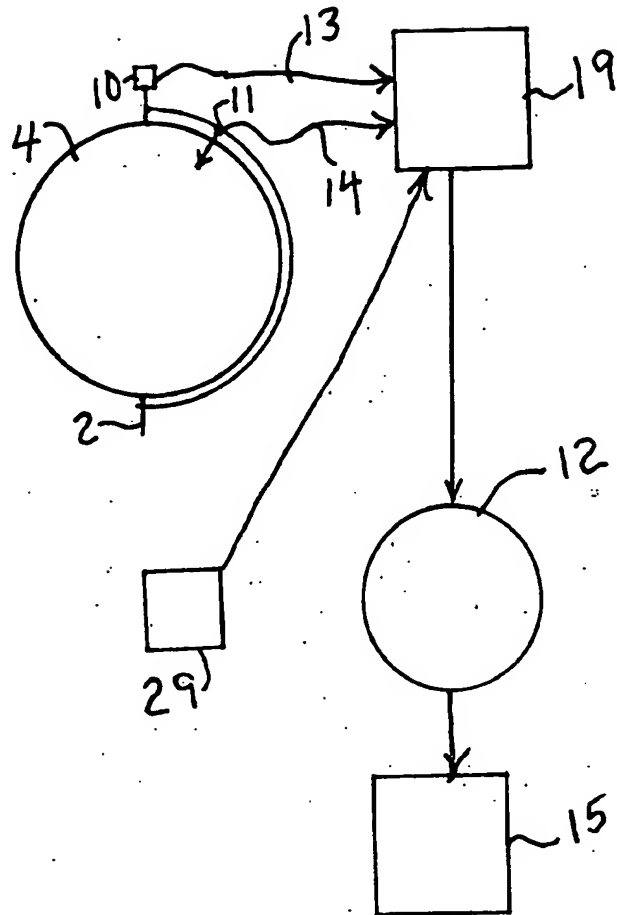
1/4

FIG. 1



2/4

FIG. 2



3/4

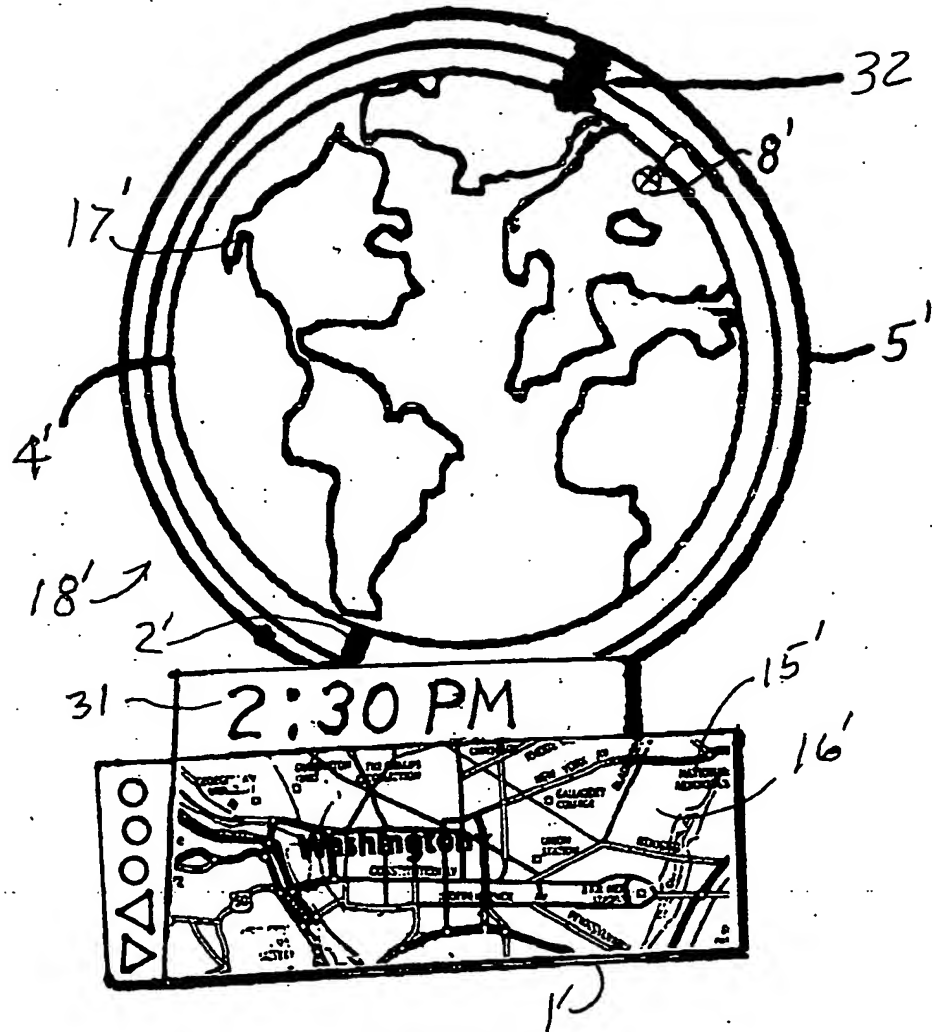
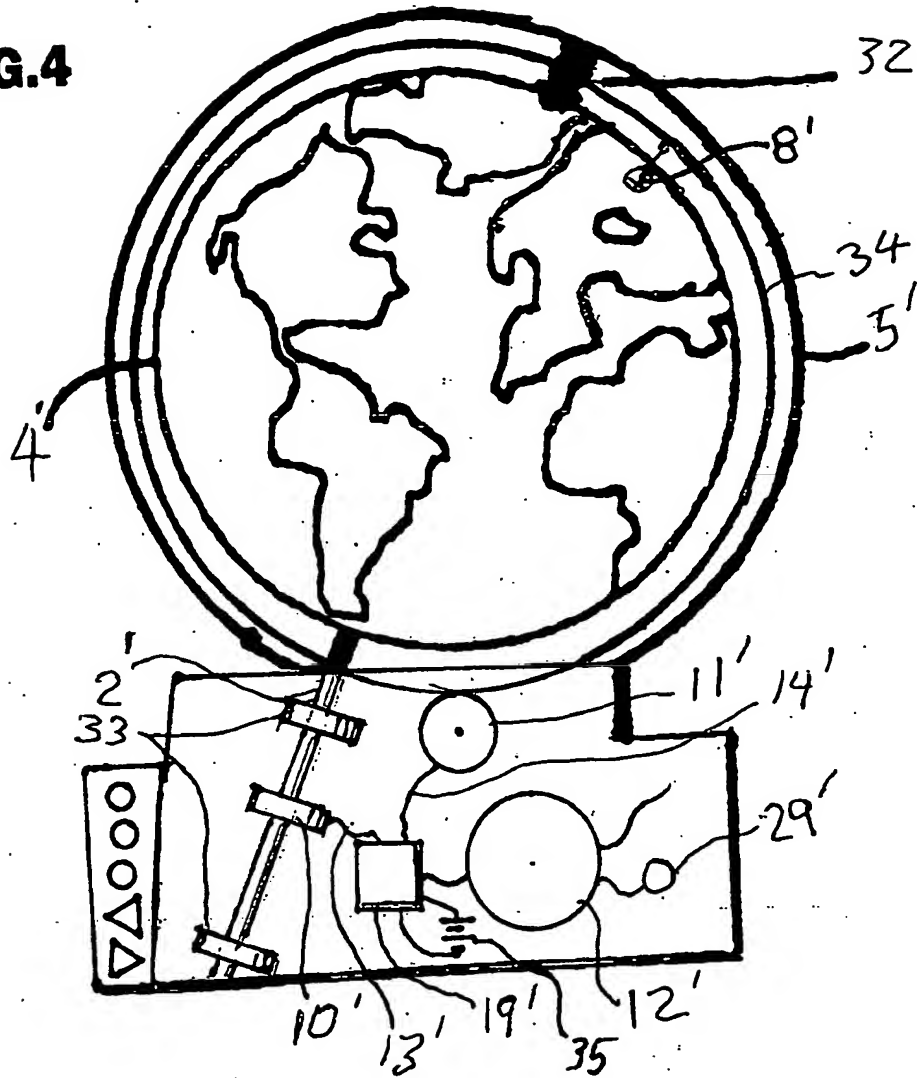


FIG. 3

4/4

FIG.4



IN THE UNITED STATES PATENT AND TRADEMARKS OFFICE
IN RE PATENT APPLICATION OF:

ALVIN S. BLUM
DOCKET NO. B100321

ENTITLED: WORLD GLOBE WITH WITH DETAIL DISPLAY
COMMISSIONER OF PATENTS AND TRADEMARKS
ALEXANDRIA, VA22313-1450

DECLARATION UNDER 37C.R.F. SECTION 1.102(c)

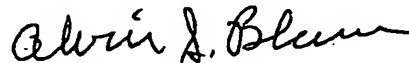
I, ALVIN S. BLUM hereby declare that:

1. I am the inventor of the invention for which a patent application is being presented herewith.
2. I am over the age of 64 years. My birth date is 1/23/26, and I am 77 years old as of this date.
3. This Declaration is being submitted in support of the PETITION TO MAKE SPECIAL accompanying the above styled patent application.

The undersigned, ALVIN S. BLUM being hereby warned that any willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. section 1001, and that such willful false statements may jeopardize the validity of this application or any patent resulting, declares that the facts set forth in this declaration are true; all statements made of his own knowledge are true; and all statements made on information and belief are believed to be true.

Date 10/23/03

Respectfully submitted,



ALVIN S. BLUM

DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63)	Attorney Docket Number	B100321
	First Named Inventor	ALVIN BLUM
	COMPLETE IF KNOWN	
	Application Number	/
	Filing Date	
	Art Unit	
<input checked="" type="checkbox"/> Declaration Submitted with Initial Filing OR <input type="checkbox"/> Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)	Examiner Name	

As the below named inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below next to my name.

I believe I am the original and first inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

WORLD GLOBE WITH DETAIL DISPLAY

(Title of the invention)

the specification of which

☒ is attached hereto.

OR

☐ was filed on (MM/DD/YYYY)

as United States Application Number or PCT International

Application Number

and was amended on (MM/DD/YYYY)

(if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby appoint the following agent to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:
ALVIN S. BLUM REGISTRATION #30,448

DECLARATION — Utility or Design Patent Application

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OR ☐ Correspondence address below

Name

27321

PATENT, TRADEMARK OFFICE

Address

Address

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State

ZIP

Country

954 462 5006
Telephone

Fax

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

NAME OF SOLE OR FIRST INVENTOR:

☐ A petition has been filed for this unsigned inventor

Given Name

ALVIN S.

Family Name

BLUM

(first and middle (if any))

or Surname

Inventor's
Signature

Alvin S. Blum

Date

10/23/2003

Residence: City FORT LAUDERDALE

State FLORIDA

Country

Citizenship USA

Mailing Address 2350 DEL MAR PLACE

Mailing Address

City FORT LAUDERDALE

State FLORIDA

ZIP 33301

Country

NAME OF SECOND INVENTOR:

☐ A petition has been filed for this unsigned inventor

Given Name

(first and middle (if any))

Family Name

or Surname

Inventor's
Signature

Date

Residence: City

State

Country

Citizenship

Mailing Address

Mailing Address

City

State

ZIP

Country

☐ Additional inventors are being named on the _____ supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.

Document made available under the Patent Cooperation Treaty (PCT)

International application number: PCT/US04/034289

International filing date: 18 October 2004 (18.10.2004)

Document type: Certified copy of priority document

Document details: Country/Office: US
Number: 10/691,893
Filing date: 23 October 2003 (23.10.2003)

Date of receipt at the International Bureau: 18 November 2004 (18.11.2004)

Remark: Priority document submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b)



World Intellectual Property Organization (WIPO) - Geneva, Switzerland
Organisation Mondiale de la Propriété Intellectuelle (OMPI) - Genève, Suisse

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